

Work Order ID 137499

October 02, 2015 3:00:03 PM

137499

Please cut ASAP
To ship Oct 6.

Page 1

Item ID: D3516-11 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Clevis
 Start Date: 10/2/2015 Start Qty: 10.00 ***10*** Cust Item ID:
 Required Date: 10/7/2015 Req'd Qty: 10.00 ***10*** Customer:
 Reference:

Approvals: Process Plan: SJA Date 20151002 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3516	Rev C

100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg D3516 Dwg Rev: <u>C</u> Prog Rev: <u>C</u> 2- Deburr if necessary								

110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.00							
Quality Control									

120	QC8- Inspect parts - second check	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS
38
9-89
OCT 03 2015

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ No Re-verification ☐ Design ☐ Operator ☐ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☐ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☐ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
		OTHER : ☐							

Work Order ID 137499***137499***

Page 3

Item ID: D3516-11

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Clevis

Start Date: 10/2/2015 Start Qty: 10.00

10

Cust Item ID:

Required Date: 10/7/2015 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start ***NR1***

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.00

Quality Control

MC OCT 06 2015SA 20151006

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
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Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

October 02, 2015 3:00:09 PM

Page 1

Work Order ID: 137499

137499

Parent Item: D3516-11

D3516-11

Parent Item Name: Clevis

Start Date: 10/2/2015

Required Date: 10/7/2015

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A New Issue 06-06-09 JLM
IPP Rev:B chg to revC ecn1136 08-03-18 DD verified by:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S11GA		Purchased				100	sf	103.7517	0.0208	0.218947			

M304S11GA

304/316 0.125 Sheet

02/15/10/05

Location

Loc Qty

Loc Code

MAT020

103.75168

122521

40.034

M128254

55.8

M129545

0.00098

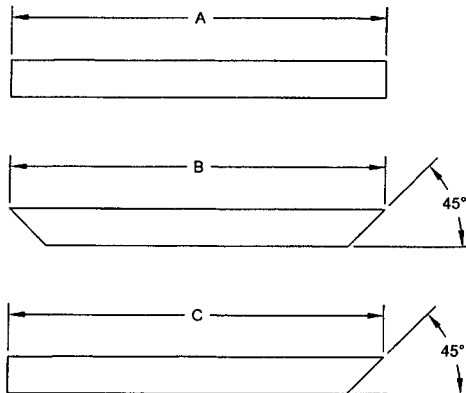
M129972

7.9167

4

PARTS LIST FOR D3516-041 BASKET BASE ASSEMBLY

PART NO	QUANTITY	LENGTH A	LENGTH B	LENGTH C	DESCRIPTION
D2232-3	2	N/A	N/A	N/A	HINGE PLATE
D2327-3	2	N/A	N/A	N/A	BUSHING
D2581	2	N/A	N/A	N/A	MOUNTING BRACKET
D3442-1	2	N/A	N/A	N/A	SHIM
D3516-1	2	—	102.00	—	RIB
D3516-3	2	—	—	2.70	RIB
D3516-5	8	26.75	—	—	RIB
D3516-7	3	45.50	—	—	RIB
D3516-9	4	N/A	N/A	N/A	RIB (MAKE FROM D2235-3)
D3516-11	6	N/A	N/A	N/A	CLEVIS
D3516-13	4	N/A	N/A	N/A	CLEVIS
D3516-15	2	—	—	19.32	RIB
D3725-1	2	N/A	N/A	N/A	HOOP



D3516-041 BASKET BASE ASSEMBLY NOTES:

1) MATERIAL:

FRAME - AISI 304/316 STAINLESS STEEL SQUARE TUBING, 3/4 X 3/4 0.065 WALL
(REF. DART SPEC. M304TS0.750W.065)

MESH - 3/4-16F EXPANDED STAINLESS STEEL
(REF. DART SPEC. M304EX0.75-16F)

2) FINISH: POWDER COAT ENTIRE ASSEMBLY WHITE GLOSS (4.3.5.2) PER DART QSI 005 4.3

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: N/A

7) WEIGHT: 75 lbs

8) WELDING: PER DART QSI 004

20151002

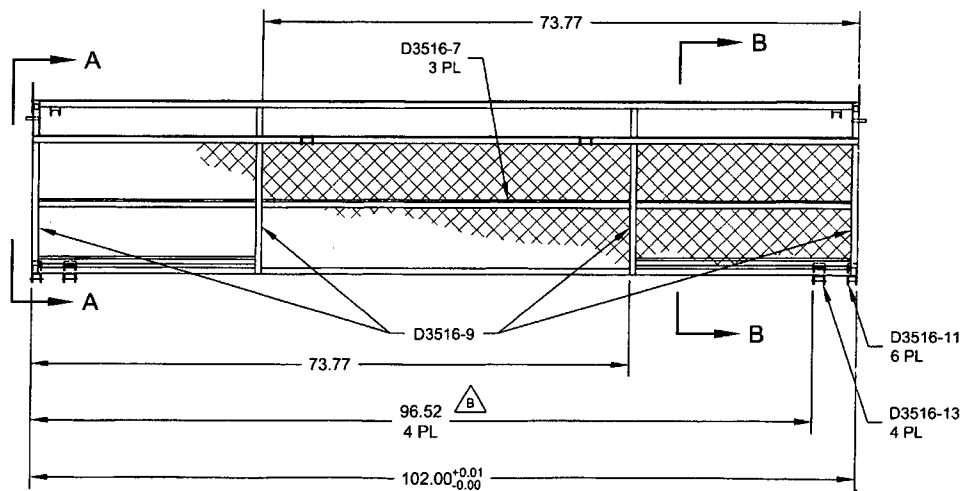
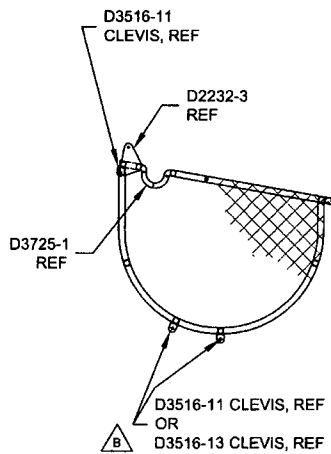
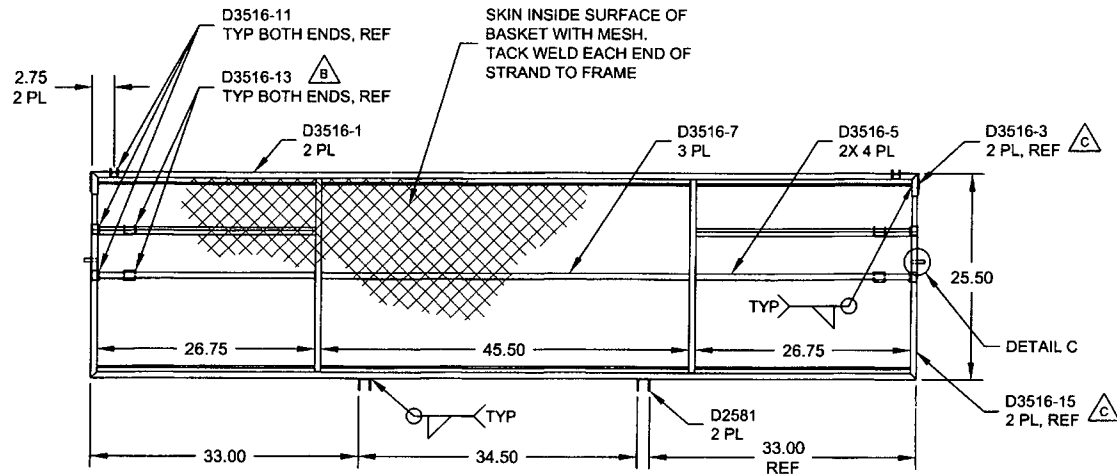
137499 SH

C	ADD D3725-1 (ZNA7-3) AND D3516-15 (ZNA5-3), QTY.(1) PER END OF BASKET BASE; SHORTEN D3516-3 (REF. ECN#1136); REASON: CUSTOMER REQUEST	MB	08.02.20
B	ADD QTY.(4) D3516-13; QTY.(6) D3516-11 WAS QTY.(1) SEE TR-D115-756-1 REV. A	MB	06.07.25
A	NEW ISSUE	MB	06.06.21
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	08.02.20		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

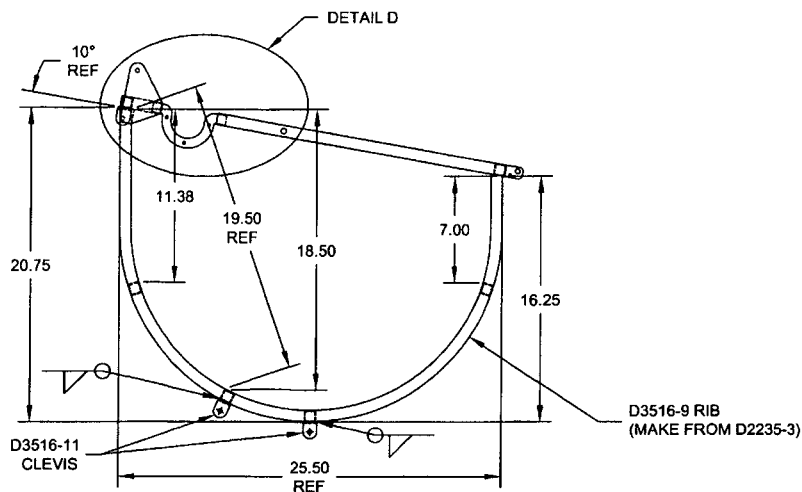
DRAWING NO. REV. C
D3516 SHEET 1 OF 4
TITLE SCALE
BASKET BASE ASSEMBLY NTS

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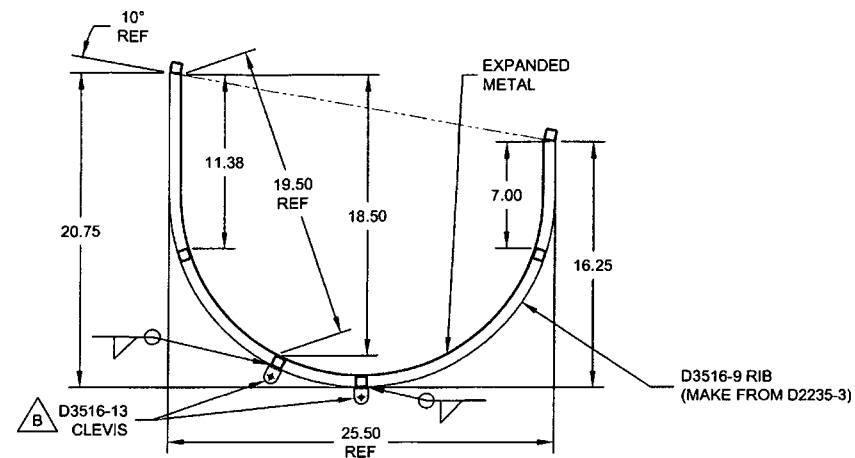


D3516-041 BASKET BASE ASSEMBLY

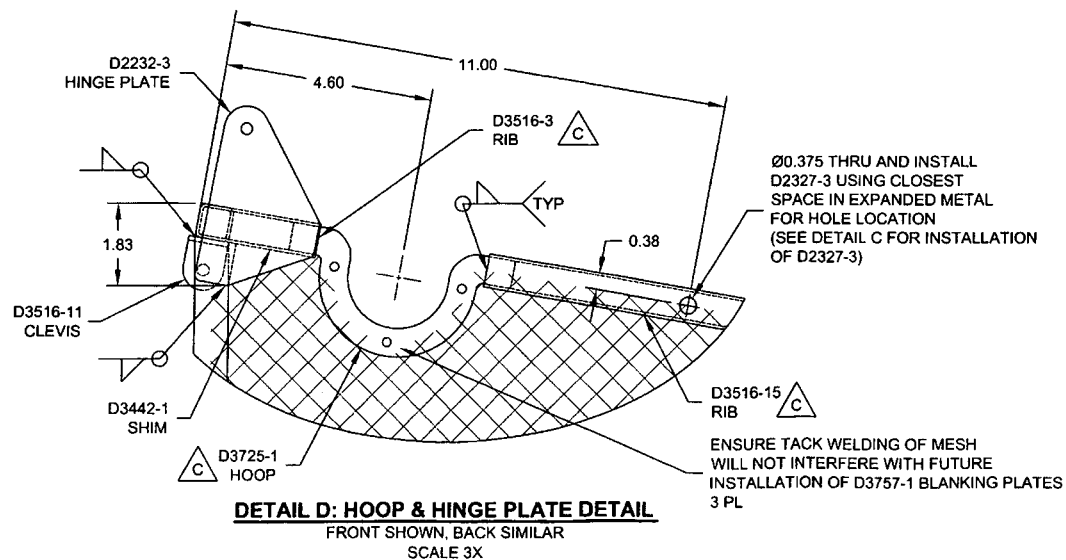
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DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D3516	REV. C
MFG. APPR.		TITLE	SHEET 2 OF 4
APPROVED		BASKET BASE ASSEMBLY (A119)	SCALE
DE APPR.			NTS
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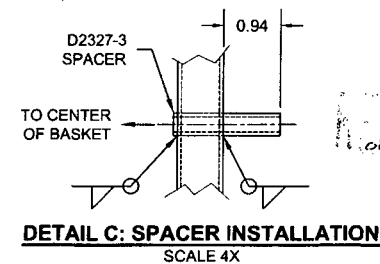
SECTION A-A: END RIB DETAIL
(MESH NOT SHOWN FOR CLARITY)
TYP BOTH ENDS



SECTION B-B: CENTER RIB DETAIL
2 PL

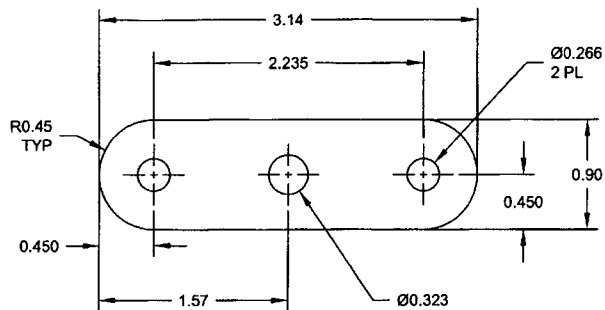


DETAIL D: HOOP & HINGE PLATE DETAIL
FRONT SHOWN, BACK SIMILAR
SCALE 3X

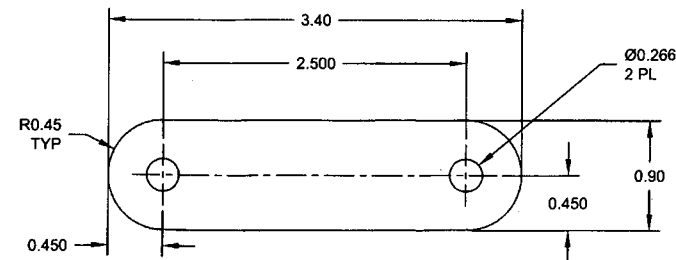


DETAIL C: SPACER INSTALLATION
SCALE 4X

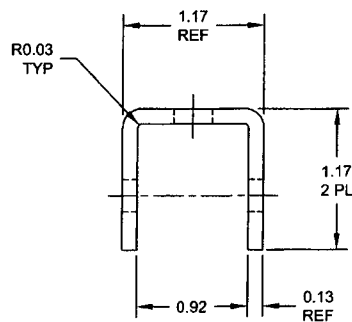
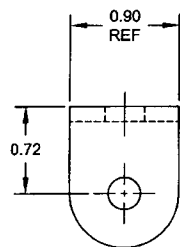
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3516	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		BASKET BASE ASSEMBLY	NT
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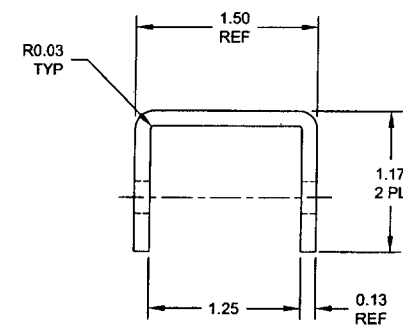
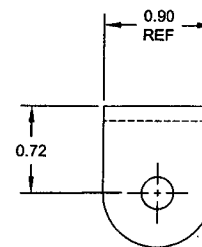
1 D3516-11F CLEVIS FLAT PATTERN



1 D3516-13F CLEVIS FLAT PATTERN



D3516-11 CLEVIS BENDING DETAIL
(MAKE FROM D3516-11F)



D3516-13 CLEVIS BENDING DETAIL
(MAKE FROM D3516-13F)

D3516-11/-13 NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET PER AMS 5513 OR AMS 5524, 11 GAUGE (0.125 THICK)
(REF. DART SPEC. M304S11GA)
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D3516-11 = 0.09 lbs
D3516-13 = 0.10 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3516	SHEET 4 OF 4
APPROVED		TITLE	SCALE
DE APPR.		BASKET BASE ASSEMBLY (A119)	NTS
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